

Appl. No. 09/545,336
Amdt. dated December 9, 2003
Reply to Office Action of September 11, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A non-invasive human user identification and verification system, comprising:

a smart card;

a silicon-based video camera embedded within said smart card for gathering facial image data;

a digitizer integrated within said smart card for digitizing said facial image data;

non-volatile storage media for receiving and storing said digitized facial image data;

a docking port for receiving said smart card and communicating said digitized image data therethrough;

communications interface for transmitting said stored digitized facial image data to a central processor capable of receiving and manipulating said data to produce an output signal for use in the identification and verification of said human user.

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Claim 2 (original): A method for the identification and verification of a human user, comprising the steps of:

capturing one or more first facial images at a remote enrollment station and digitizing said first facial images for storage in a non-volatile media within a smart card;

inserting said smart card with embedded video camera into a docking port;

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capturing one or more second facial images and digitizing and transmitting said second facial images to a central processor capable of receiving and comparing said first and second facial images and producing a signal indicative of recognition or non-recognition of said human user.

Claim 3 (new): A human user identification and verification system, comprising:

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a portable personal identification device;
a communications port adapted to receive information from the personal identification device, the communications port being external to the personal identification device;

wherein the personal identification device comprises:

a prerecorded representation of biometric data identifying an individual;
a sensor configured to capture biometric data; and
a communications interface configured to transmit information to the communications port, the information including both the prerecorded representation of biometric data identifying the individual and the biometric data captured by the sensor; and
a processor communicatively coupled to the communications port, the processor being configured to process the information transmitted from the personal identification device to the communications port and produce a signal indicative of whether the biometric data captured by the sensor matches the individual identified by the prerecorded representation of biometric data.

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Claim 4 (new): The human user identification and verification system of claim 3, wherein the personal identification device is a smart card.

Claim 5 (new): The human user identification and verification system of claim 4, wherein the communications port is a docking station.

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Claim 6 (new): The human identification and verification system of claim 3, wherein the biometric data identifying the individual comprises facial image data and wherein the sensor is an image-capturing device.

Claim 7 (new): The human identification and verification system of claim 6, wherein the biometric data identifying the individual comprises facial image data and wherein the sensor is an image-capturing device.

Claim 8 (new): The human identification and verification system of claim 6, wherein the personal identification device further comprises machine-readable storage media for storing the prerecorded representation of biometric data identifying an individual.

Claim 9 (new): The human identification and verification system of claim 8, wherein the storage media comprises non-volatile memory.

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Claim 10 (new): The human identification and verification system of claim 3, wherein the personal identification device comprises a plurality of prerecorded representations of biometric data identifying an individual.

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Claim 11 (new): The human identification and verification system of claim 3, wherein the personal identification device is configured to acquire and store data representing a plurality of biometric characteristics of a person.
